

Louisiana Office of Public Health Laboratories	
Test Name	NeoBase non-derivatized MSMS Kit
PHL Location	Central Laboratory 1209 Leesville Avenue Baton Rouge, Louisiana 70802
CPT Code	83788
Synonyms	MSMS
Brief Description of Test	Measurement and evaluation of amino acids, succinylacetone, free Carnitine, and Acylcarnitines concentrations from newborn heel prick blood samples dried on filter paper.
Possible Results	Presumptive Positives and Presumptive Negative
Reference Range	Normal no Elevations
Specimen Type	Neonatal Dried Blood Spot
Specimen Container(s):	Shipping Envelopes
Minimum volume accepted:	Minimum of 2 completely filled blood spot circles
Collection Instructions	Blood Specimens should be taken directly from a heel prick onto filter paper and, allowed to dry for at least 3 hours in a horizontal position.
Storage and Transport Instructions	Storage of samples in an environment with elevated temperatures and humidity increases the risk of false positive screening results. Transport or mail the specimen to the laboratory with 24 hours of collection.
Causes for Rejection	Specimen > 14 days old, clotted or layered, serum rings, scratched or abraded, insufficient quantity for testing, not completely dry before mailing, blood applied to both sides of the filter paper, diluted discolored or contaminated, collection using capillary tubes containing EDTA, >12 months old, circles not completely filled.
Limitations of the Procedure	Samples spot not uniformly saturated with blood - sample spots punched too close to the edge of the blood spot - poorly collected and improperly dried specimens - non-eluting blood spot due to deterioration of sample caused by exposure to heat and humidity - contamination of blood spot filter paper with fecal material Heterophilic antibodies in the sample may interfere with the assay (16,17). Hematocrit values in the blood sample may affect the measured hTSH concentration
Interfering Substances	Asparagine interference on Ornithine; Creatine interference on Alanine; Creatine interference on Leucine; Hydroxproline interference on Leucine; Methionine sulfone interference on Tyrosine; Sarcosine interference on Alanine; Chlorexidine gluconate interference on C5, C10 and other analytes; Pivalic acid interfere with the screening of Isovaleric Acid.
References	NeoBase Non-derivatized MSMS Package Insert
Additional Information	N/A
Release Date	11/2013
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